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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/671,846	09/25/2003	Eugene George Olczak	133074-1	8697	
6147	7590 05/31/2006		EXAMINER		
GENERAL GLOBAL R	ELECTRIC COMPANY	CHEVALIER, ALICIA ANN			
PATENT DOCKET RM. BLDG. K1-4A59		59	ART UNIT	PAPER NUMBER	
NISKAYUN	A, NY 12309		1772		
			DATE MAILED: 05/31/2000	DATE MAILED: 05/31/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	Ţ			
Office Action Summary		10/671,846	OLCZAK ET AL.				
		Examiner	Art Unit				
		Alicia Chevalier	1772				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with th	e correspondence addres	ss			
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATE of the may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. It is pecified above, the maximum statutory period we re to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATE  S6(a). In no event, however, may a reply be  ill apply and will expire SIX (6) MONTHS for  cause the application to become ABANDO	ION. e timely filed from the mailing date of this commu				
Status							
1)⊠	Responsive to communication(s) filed on 14 Ma	arch 2006.					
2a)□	This action is <b>FINAL</b> . 2b) This action is non-final.						
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under $\boldsymbol{\mathcal{E}}$	x parte Quayle, 1935 C.D. 11,	, 453 O.G. 213.				
Dispositi	on of Claims						
4)⊠	Claim(s) 1-13 and 29-32 is/are pending in the a	application.					
	4a) Of the above claim(s) is/are withdrawn from consideration.						
5)[	5) Claim(s) is/are allowed.						
6)⊠	☑ Claim(s) <u>1-13 and 29-32</u> is/are rejected.						
	Claim(s) is/are objected to.						
8)∐	Claim(s) are subject to restriction and/or	election requirement.					
Applicati	on Papers						
9)[	The specification is objected to by the Examiner	•					
10)[	The drawing(s) filed on is/are: a)☐ acce	epted or b) objected to by th	e Examiner.				
	Applicant may not request that any objection to the o	drawing(s) be held in abeyance.	See 37 CFR 1.85(a).				
	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)[	The oath or declaration is objected to by the Exa	aminer. Note the attached Offi	ce Action or form PTO-1	<b>52</b> .			
Priority u	ınder 35 U.S.C. § 119						
	Acknowledgment is made of a claim for foreign ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. § 119	(a)-(d) or (f).				
	1. Certified copies of the priority documents have been received.						
	2. Certified copies of the priority documents have been received in Application No						
	3. Copies of the certified copies of the priori	×	ived in this National Star	ge			
	application from the International Bureau	• • • •					
- 8	see the attached detailed Office action for a list of	of the certified copies not rece	ived.				
Attach	Va).						
Attachment	e of References Cited (PTO-892)	4) 🔲 Interview Summa	ary (PTO-413)				
2) Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail	Date				
	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date 4/11/06.	5)  Notice of Informa 6)  Other:	al Patent Application (PTO-152	<b>!)</b>			

## RESPONSE TO AMENDMENT

1. Claims 1-13 and 29-32 are pending in the application, claims 14-28 have been cancelled.

2. Amendments to the claims, filed on March 14, 2006, have been entered in the above-identified application.

### **NEW REJECTIONS**

3. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

## Claim Rejections - 35 USC § 102

4. Claims 1-13 and 29-32 are rejected under 35 U.S.C. 102(b) as being anticipated by McGrath (U.S. Patent No. 4,025,159).

McGrath discloses a multiplayer optical film (cellular retroreflective sheeting, title). The film comprises at least two component films (bass sheet and cover film, col. 3, lines 25-26). At least one of the component films (bass sheet) has an upper and lower surface (figure 3). The upper surface comprises a series of optical structures (mircospheres, col. 3, line 33) and a plurality of raised spacing structures (narrow intersecting bonds, col. 3, line 26). The lower surface is essentially planar (figure 3). The component films are joined so as to constitute a single structure comprising at least one gap disposed between the component films (figure 3).

Furthermore, the gap is deemed to be greater than the coherent length of light used to illuminate the optical film since the reference discloses that same height for the spacing

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structures as claimed by Applicant. See the discussion below regarding claim 7. Furthermore, Applicant's specification on page 7, paragraph [0020] recites that the gap between surfaces should be greater than the coherent length of the light source, typically no less than a few microns.

The preamble/limitation "backlighting display" is deemed to be a statement with regard to the intended use and is not further limiting in so far as the structure of the product is concerned. In article claims, a claimed intended use must result in a *structural difference* between the claimed invention and the prior art in order to patentably distinguish the claimed invention from the prior art. MPEP § 2111.02.

McGrath discloses that the optical structures are convex and concave structures (mircospheres, col. 3, line 33 and figure 3). McGrath discloses that the optical structures are prisms, since the reference discloses cube-corner elements can be interchangeable used with the microspheres (col. 6, lines 13-20 and figure 7). McGrath discloses that the raised spacing structures comprise at least one post-structure and/or at least one beam structure (narrow intersection bonds, col. 3, line 26 and figures 1, 3 and 7). McGrath discloses that the spacing structures have a height relative to the optical structures between about 0.1 and about 20 microns, since the reference shows in figure 3 that the spacing structure, i.e. narrow intersection bonds, have a height of half the diameter of the optical structures, i.e. microspheres, and the diameter of the microspheres is between 10 and 200 micrometers (col. 5, lines 29-30), which means that the height of the narrow intersection bonds is between 5 to 100 microns. McGrath discloses that the raised spacing structures comprise at least one post-structure (narrow intersection bonds, col. 3, line 26 and figures 1, 3 and 7). McGrath discloses that the component

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films have a thickness between about 0.006 and about 5 millimeters, since the reference discloses that the base sheet has a thickness of 75 micrometers (col. 6, lines 60-61) and the cover film has a thickness between 1 and 5 mils (col. 5, line 14), which together have a thickness of 100.4-203 micrometers or 0.1 to 0.2 mm. McGrath discloses that the gap comprises solid matter, fluid matter and combinations thereof, since the reference discloses that air, i.e. a fluid, in the gaps (col. 3, lines 23-30). McGrath discloses that the raised spacing structures have either equal or unequal heights relative to the optical structures (figures 3 and 7). Figure 3 in McGrath shows that the raised spacing structures occupy an area, the area is deemed to define a percentage of a total area of the film surface upon which the raised spacing structures are disposed. Furthermore, it can be seen from figure 1 that the percentage is in the range between about 1 and about 50.

#### ANSWERS TO APPLICANT'S ARGUMENTS

5. Applicant's arguments in response filed March 14, 2006 regarding the 35 U.S.C. 102(b) rejection over McGrath (U.S. Patent No. 4,025,159) of record have been carefully considered but are deemed unpersuasive.

Applicant argues that they are not aware of any teaching in the prior art which would suggest the suitability of the films of the present invention for use as backlighting display optical films.

It has been held that a recitation with respect to the manner in which a claimed product is intended to be employed does not differentiate the claimed product from a prior art product satisfying the claimed structural limitations. Furthermore, Applicant has not point out a

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distinguish the claimed invention from the prior art. MPEP § 2111.02. Furthermore, if

Applicant wishes the preamble to be given full weight is suggested that Applicant more

positively recite the limitation and add more detail to the limitation backlighting display optical

film. It is also highly suggested that Applicant clear define what is meant by "backlighting

display optical film," i.e. what structural limitations does impart and what kind of display.

#### Conclusion

6. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alicia Chevalier whose telephone number is (571) 272-1490. The examiner can normally be reached on Monday through Friday from 8:00 am to 4:00 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Harold Pyon, can be reached on (571) 272-1498. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

ac § 5/29/06

ALICIA CHEVALIER PRIMARY EXAMINER